

REMARKS

This is in response to the Official Action of October 6, 2004. By the present amendment, the specification has been amended to insert the application number and correct certain equations. More particularly, at page 3, line 12, the first summation is from  $i=0$  to  $i=n$ , not to  $n-1$ . At page 3, line 17 and page 4, line 4, an  $=$  sign has been replaced with  $\leq$ . These corrections find support at page 7, line 2 and at page 17, line 19, respectively. Grammatical errors are corrected at page 18, line 1 (a superfluous "a") and at page 20, line 18 (a superfluous comma). None of these corrections raise new matter. Entry is requested.

Claims 1-20 were rejected as indefinite under Section 112. Reconsideration of the claims as amended is requested. Primarily for sake of readability to the expressions set forth in the claims, and particularly the mathematical symbols appearing in claims 1, 4, 5, 13 - 15 and 20, these claims have been re-written as claims 21-27. For the convenience of the Examiner, original claims 1, 5, 13, 15 and 20 are reproduced as amended to claims 21, 23, 24, 26 and 27 in the appendix.

Claim 1 was rejected as indefinite, the Examiner stating a number of issues, namely questioning how a variable can be a Fibonacci series, how a "Fibonacci series  $F_{\{1-1\}}$ " can be different from "Fibonacci series  $F_1$ ", and how a number minus a variable can be a Fibonacci series.

A Fibonacci series is a series of numbers or members where a member ( $F_{\{1+1\}}$ ) is the sum of the two prior members, namely,  $F_{\{1+1\}} = F_1 + F_{\{1-1\}}$ . The series is often written as " $F_1$ " whereas the members of the series are written as " $F_1$ " or  $F_{\{1-1\}}$ ". Claim 1 has been amended (and re-presented as new claim 21) by reciting that  $k$  is a parameter (as opposed to a variable) greater than or equal to a number  $F_1$  from a Fibonacci series. This finds support in the specification at page 17, lines

10-26. Additionally, claim 1 has been clarified by reciting that  $F_{l-1}$ ,  $F_l$  and  $F_{l+1}$  are members of a Fibonacci series. Thus,  $k$  and  $n-k$  are not Fibonacci series, they are numbers from a Fibonacci series.

Claim 2 has been amended to delete "additional" and to attribute the function to the circuit. Claim 4 (and re-presented as claim 22) is amended to recite that the carry functions use conjunction elements, and both claims 4 and 14 (re-presented as claim 25) are amended to recite that the carry function (or output) is recursively expanded to find a minimum parameter defined in a manner similar to that set forth in claim 1. This is supported in the specification at page 21, lines 8-15, and at page 17, lines 10-26.

In claims 7 and 17, negations has been changed to negation elements. Other amendments are made to claims to for consistency to the other amendments.

Favorable reconsideration and early allowance is respectfully solicited.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

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